

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

5783431

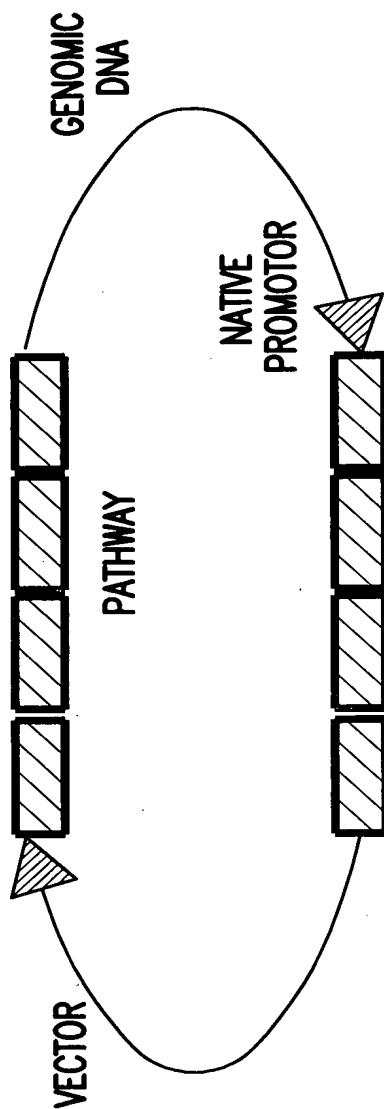


FIG.1

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

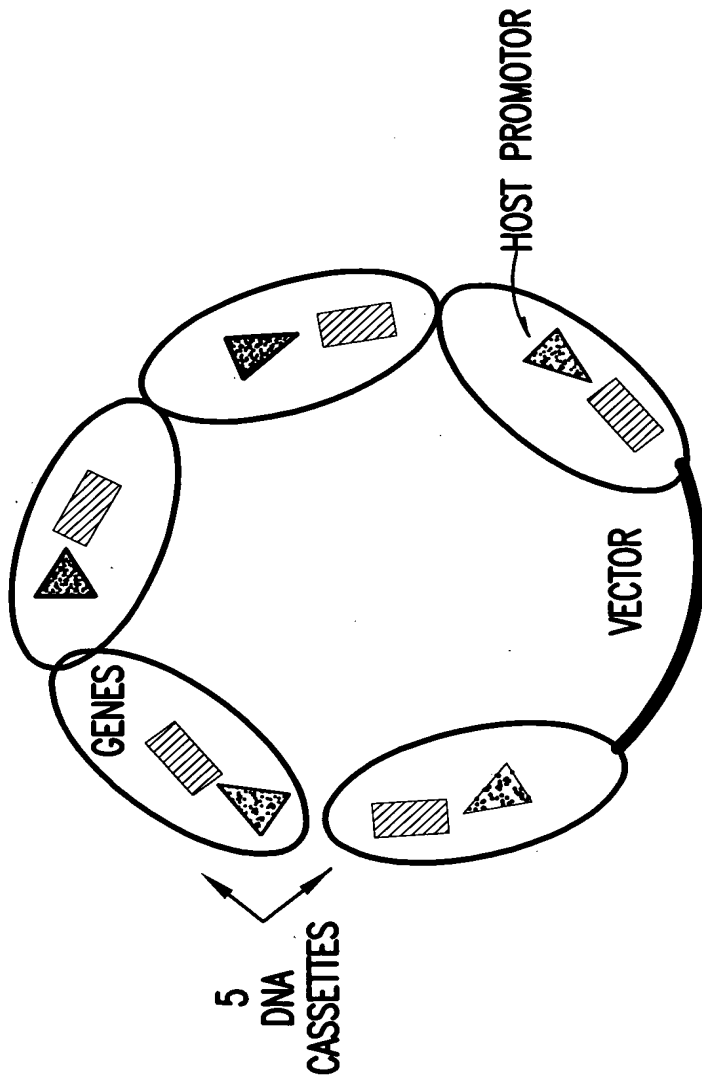


FIG.2

2
bmc

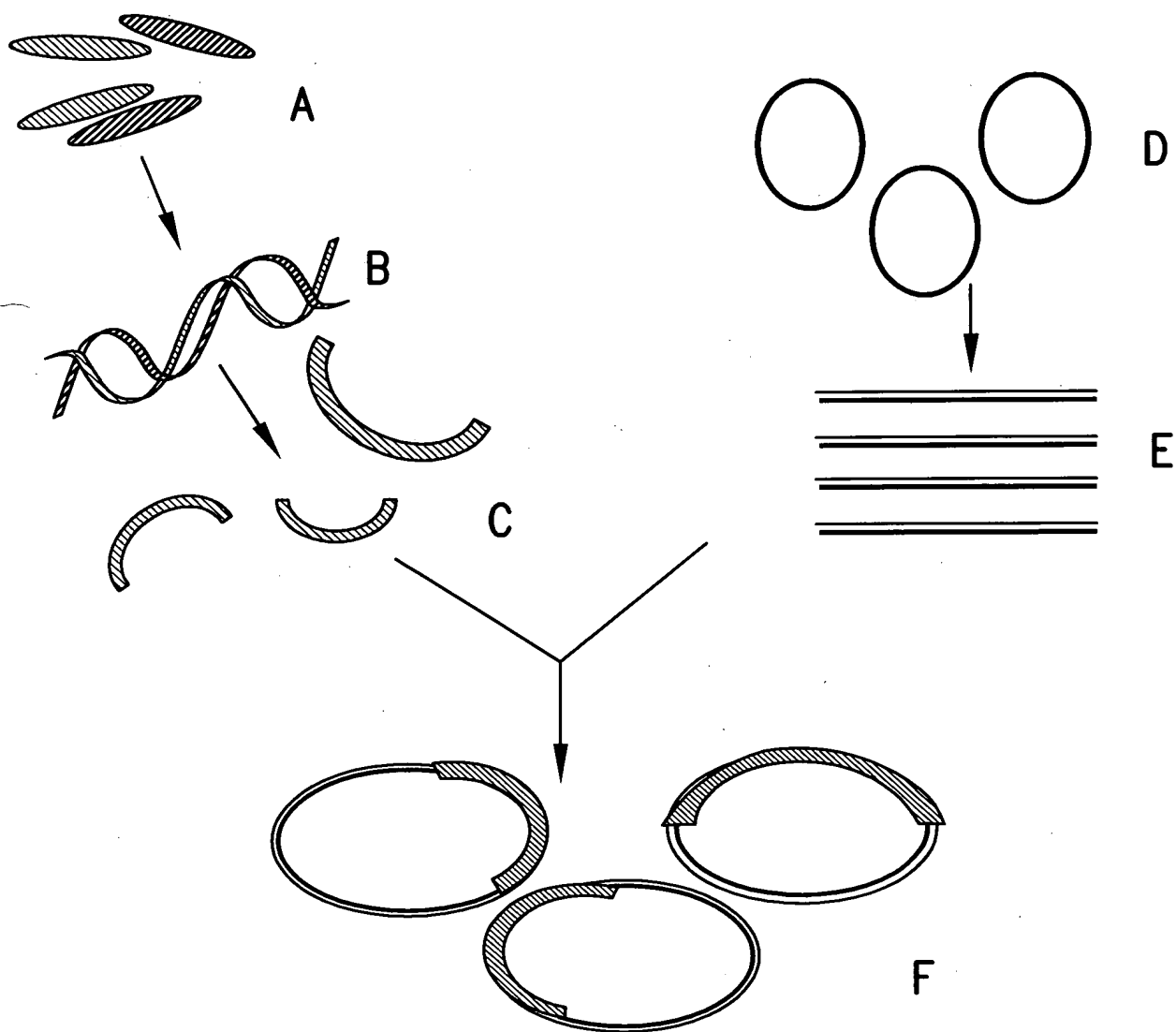


FIG.3

120
6/2/01

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

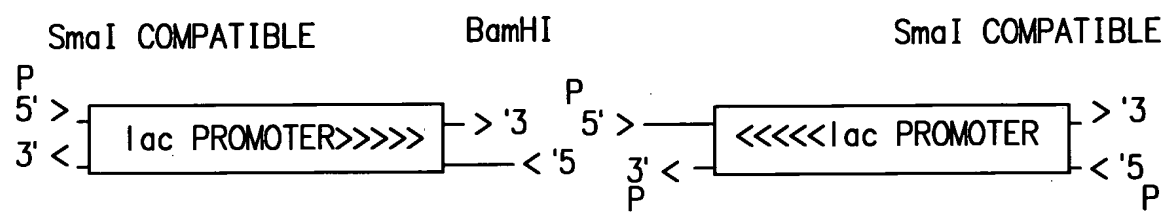
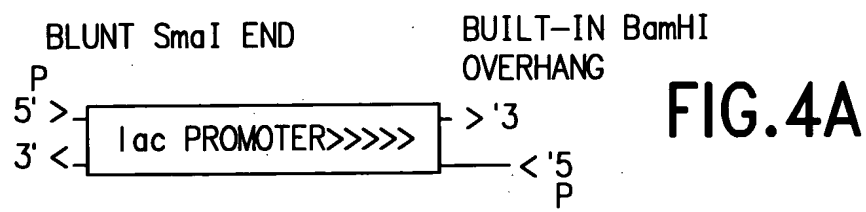


FIG.4B

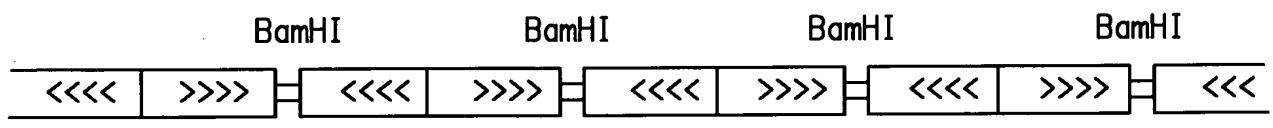
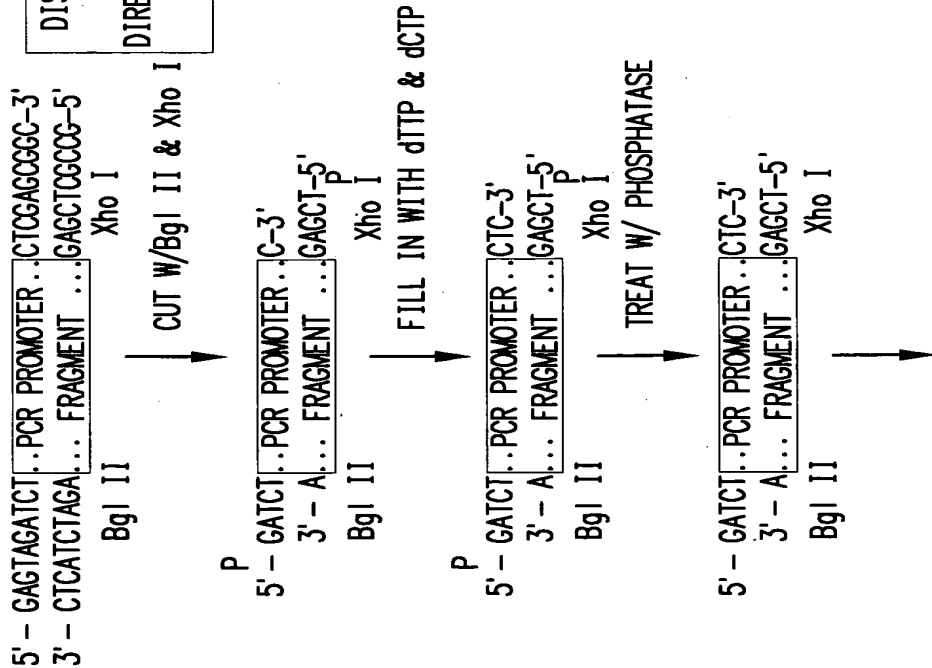


FIG.4C

4. over

PROMOTERS FOR cDNA & gDNA INSERTS



DISSIMILAR ENZYMES ON PROMOTER &
TERMINATOR FRAGMENTS ASSURE
DIRECTIONAL CLONING OF cDNA INSERTS,
(FOR EXAMPLE Xho I & Xma I)

ENZYME CLEAVAGE GENERATES
DEFINED ENDS, LEAVING
PROTECTED 3' BamHI SITE

KLENOW FILL IN OF
PROMOTERS & TERMINATORS
FRAGMENTS MAKE THEM INCAPABLE
OF INTER/INTRA LIGATION

PHOSPHATASE TREATMENT
CRATES EQUAL STRENGTH
LIGATION PARTNERS

TERMINATORS FOR cDNA INSERTS

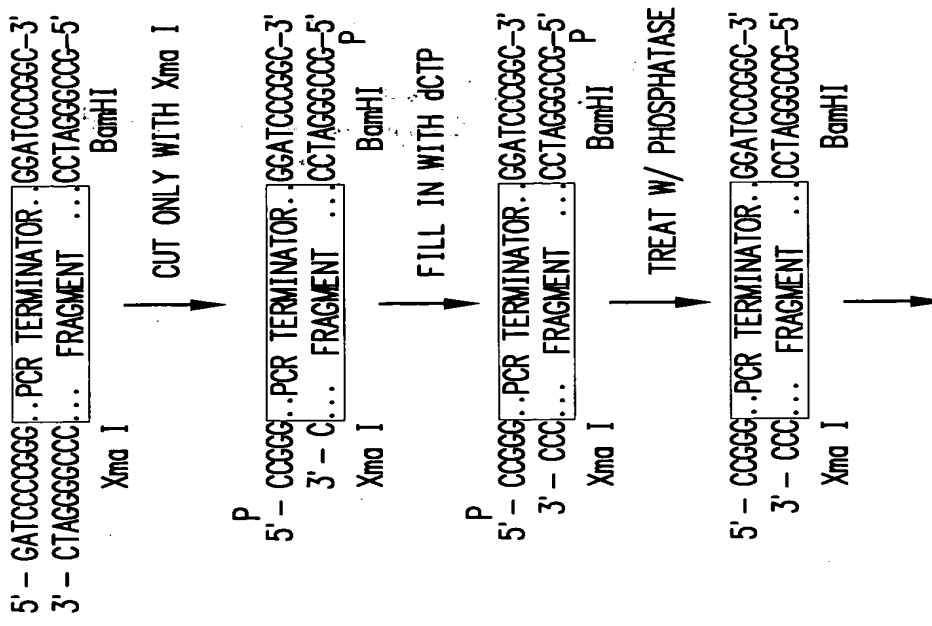


FIG.5A

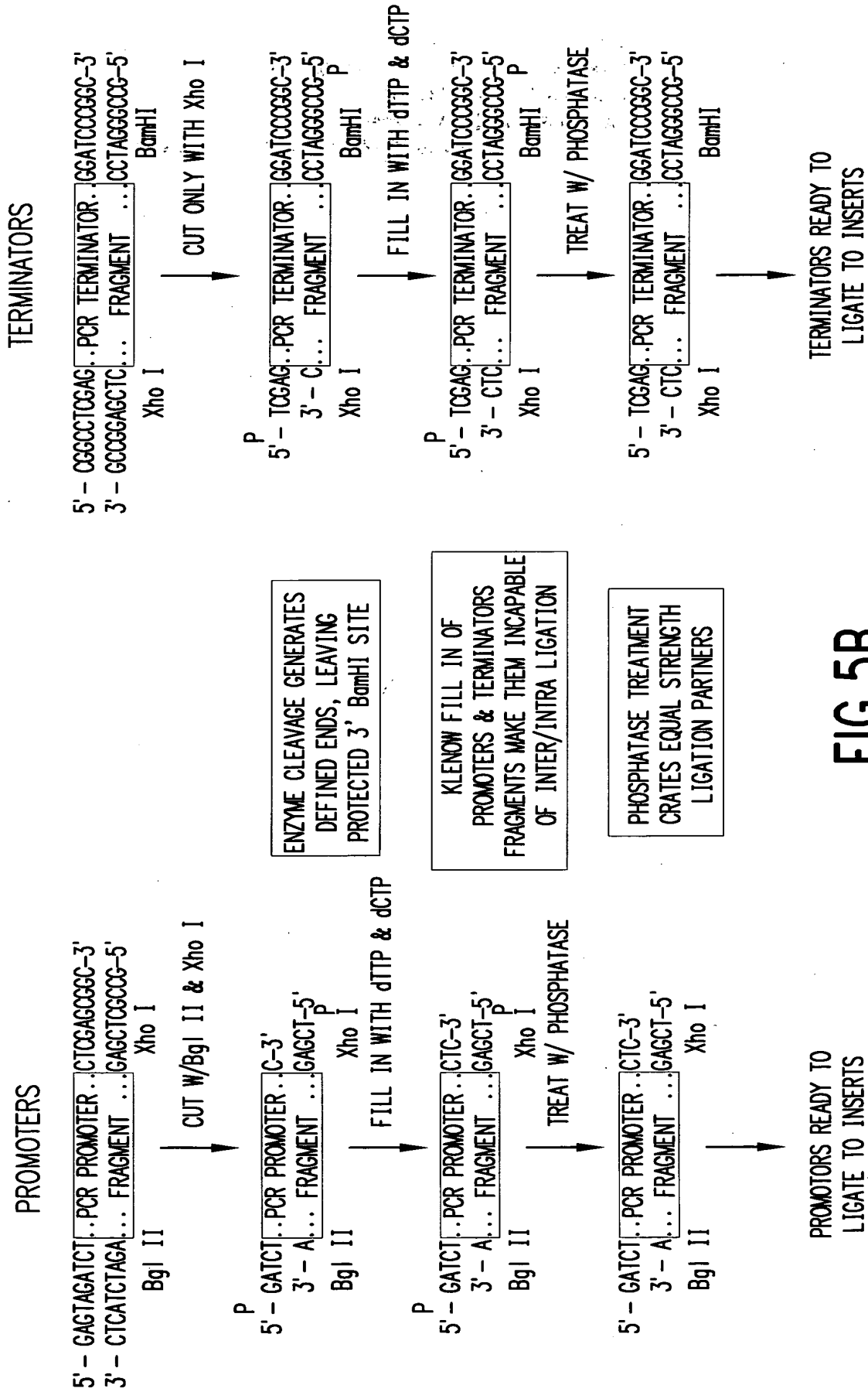


FIG.5B

6

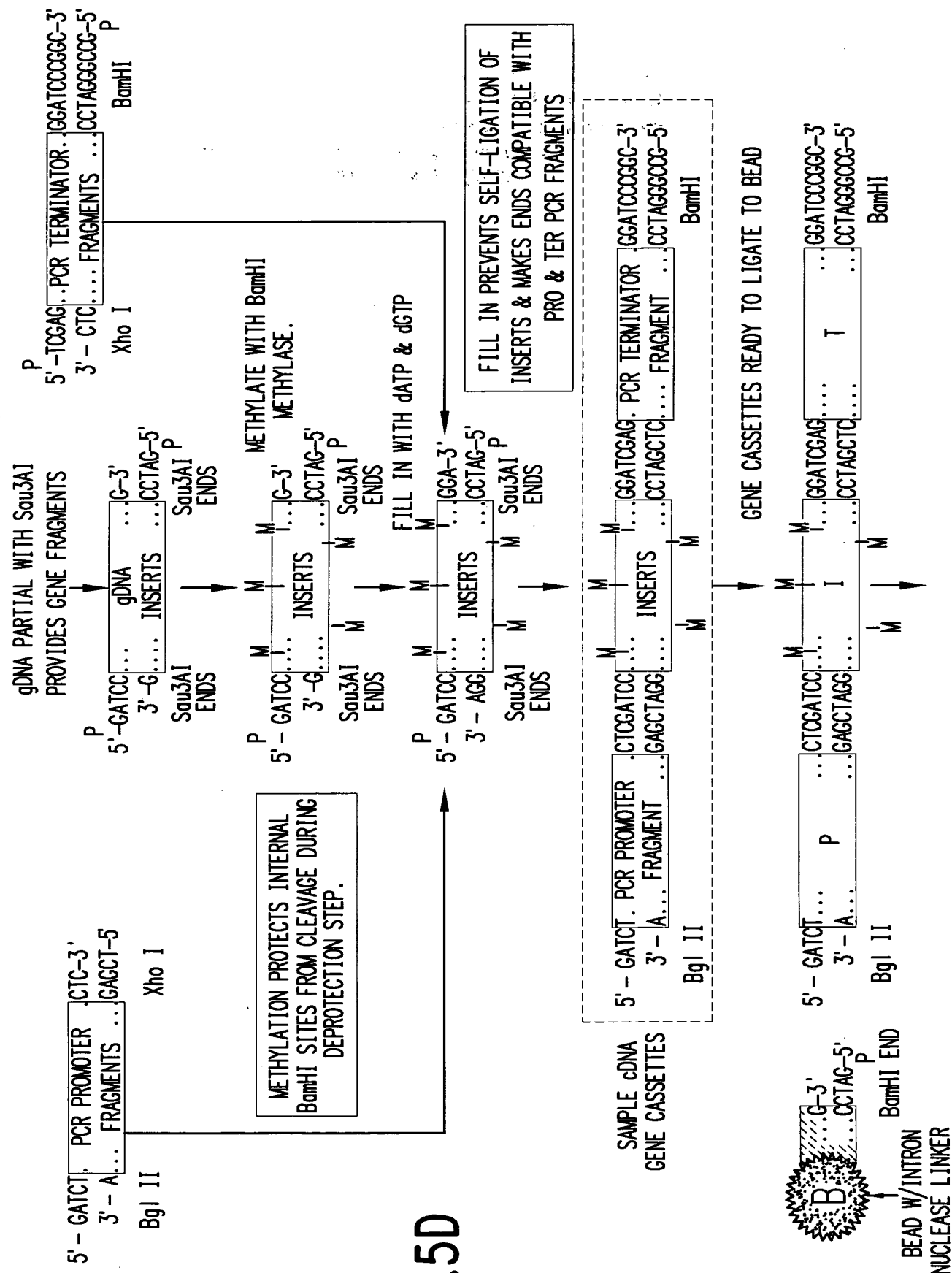


FIG.5D

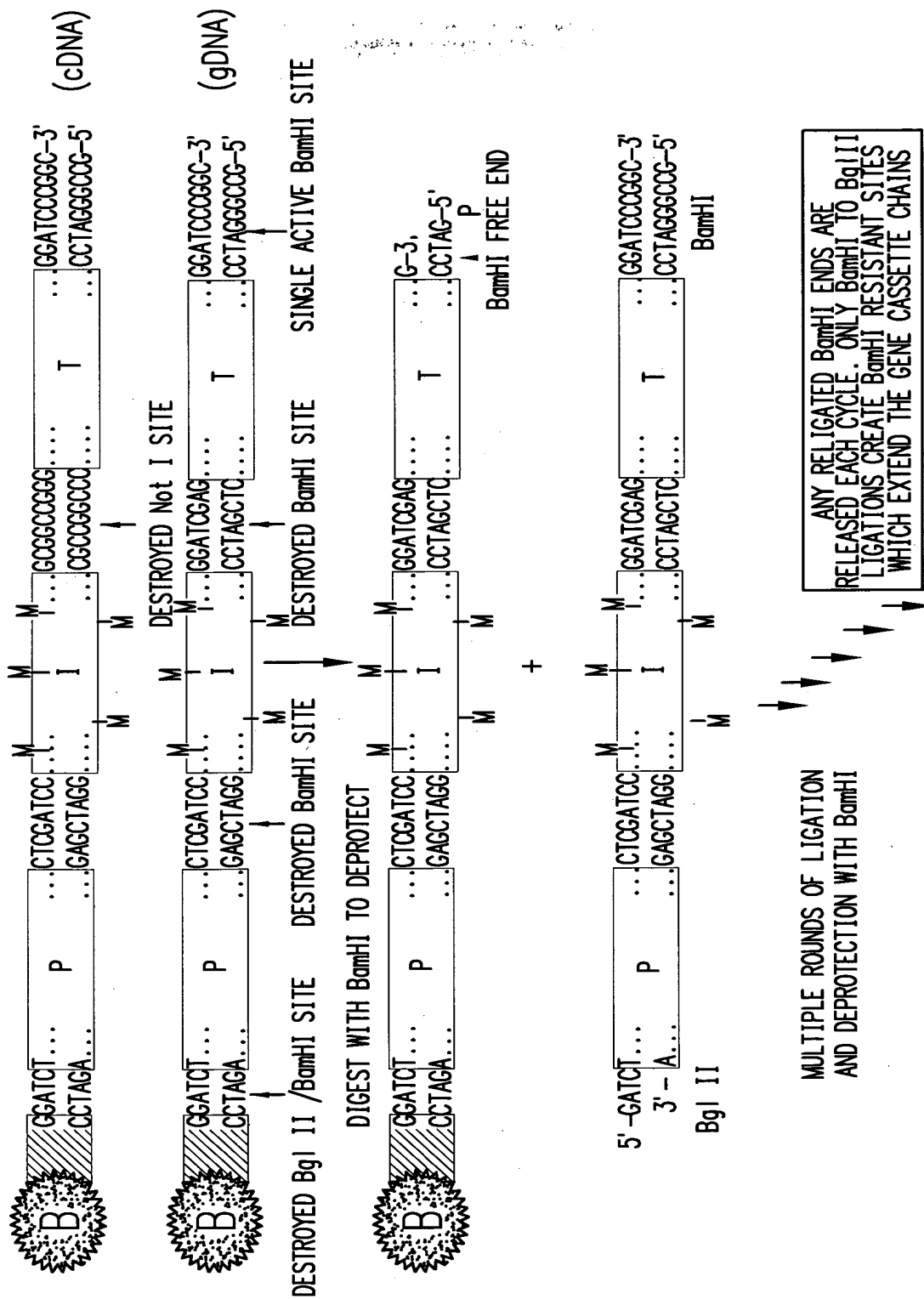
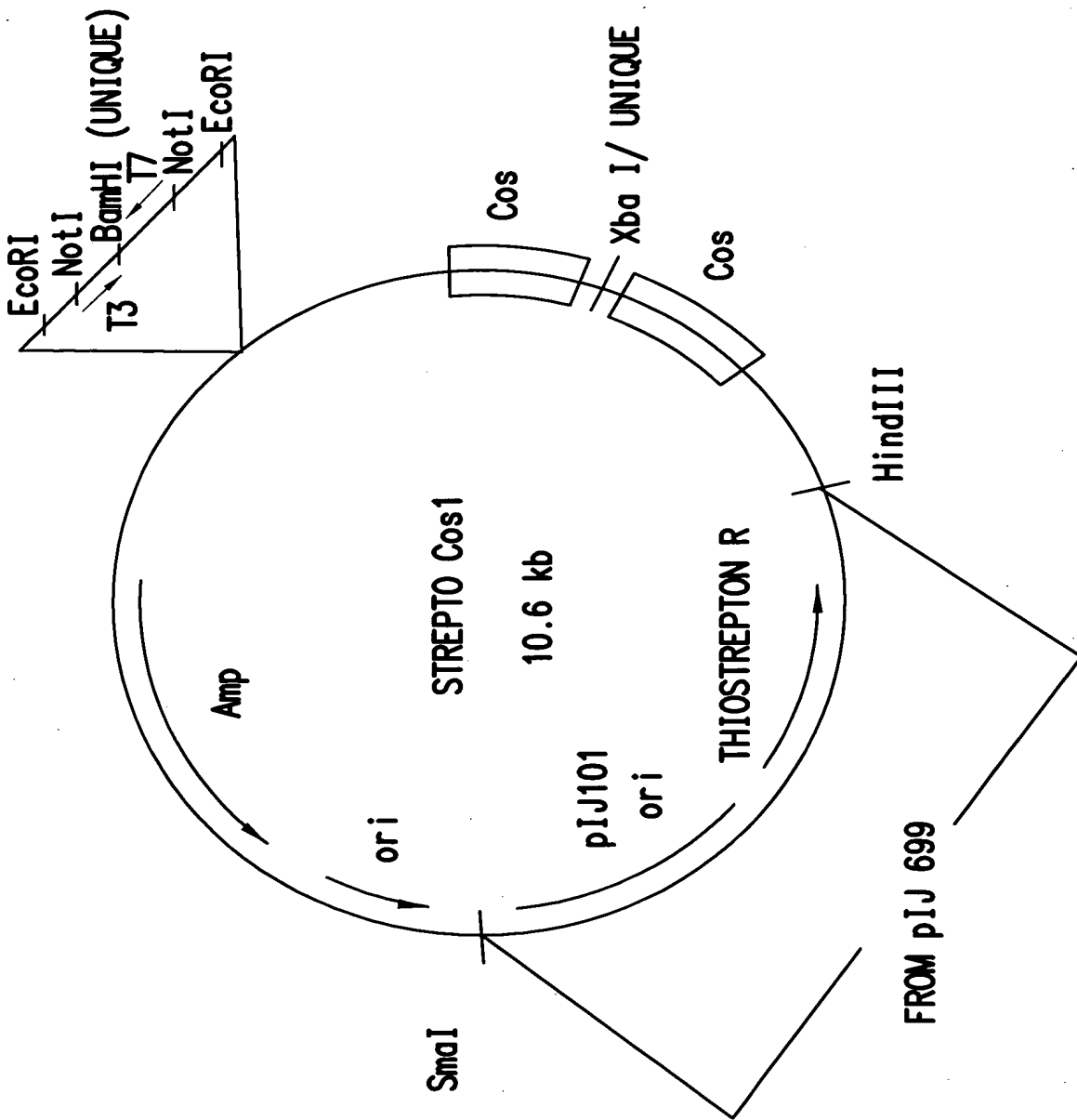
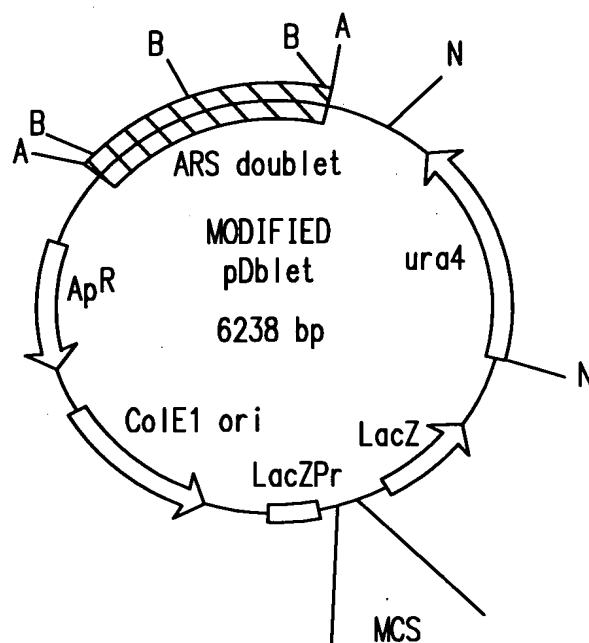


FIG.5E



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



MCS = SacI-NcoI-BstXI-NotI-Xba...

FIG.6B

5' CCTAGCCATGGCCACCTAACTGGGATCGC 3'
 3' TCGAGGATCGGTACCGGTGGATTGACCCTAGCGCCGG 5'
 SacI NcoI BstXI NotI END

FIG.6C

13

APPROVED	O.C. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

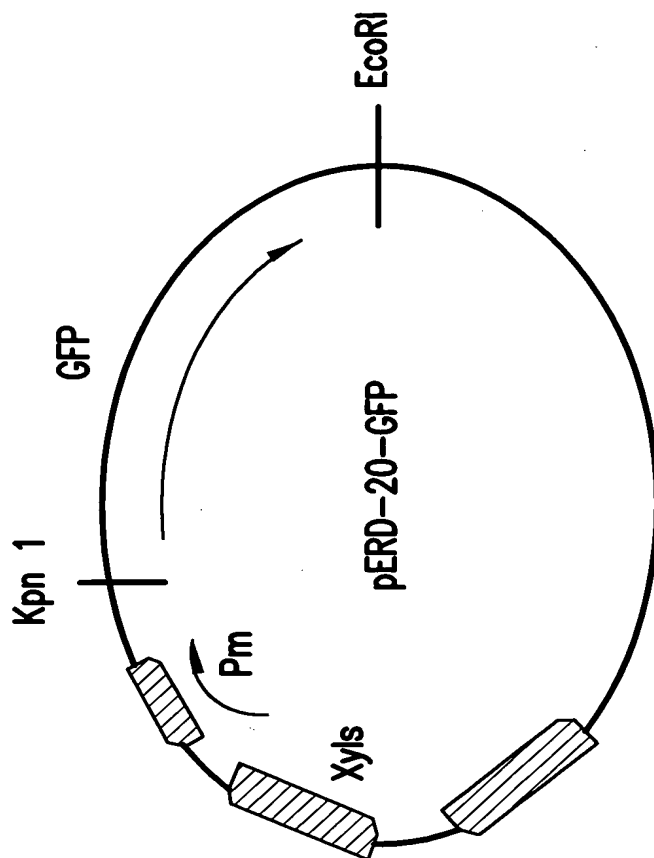


FIG.7

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

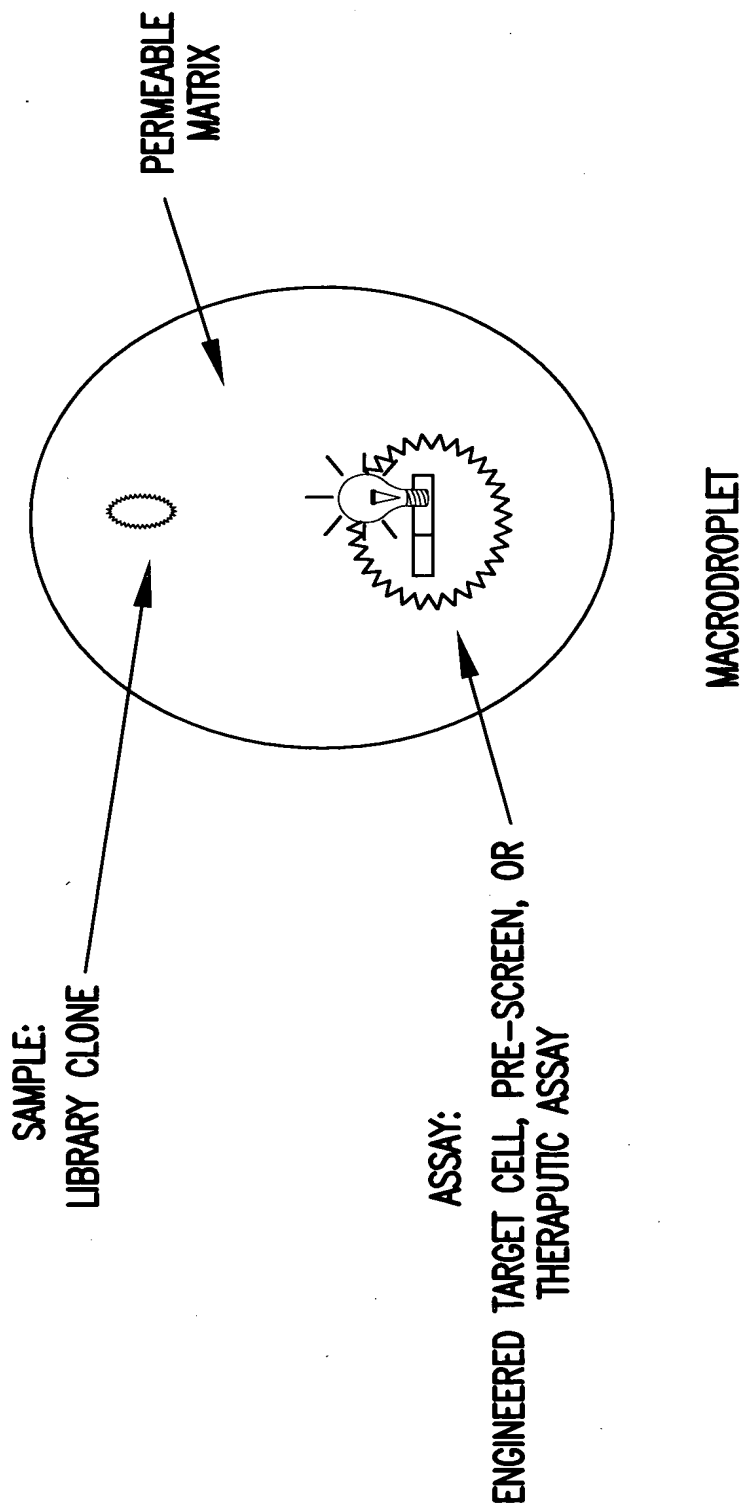


FIG.8

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

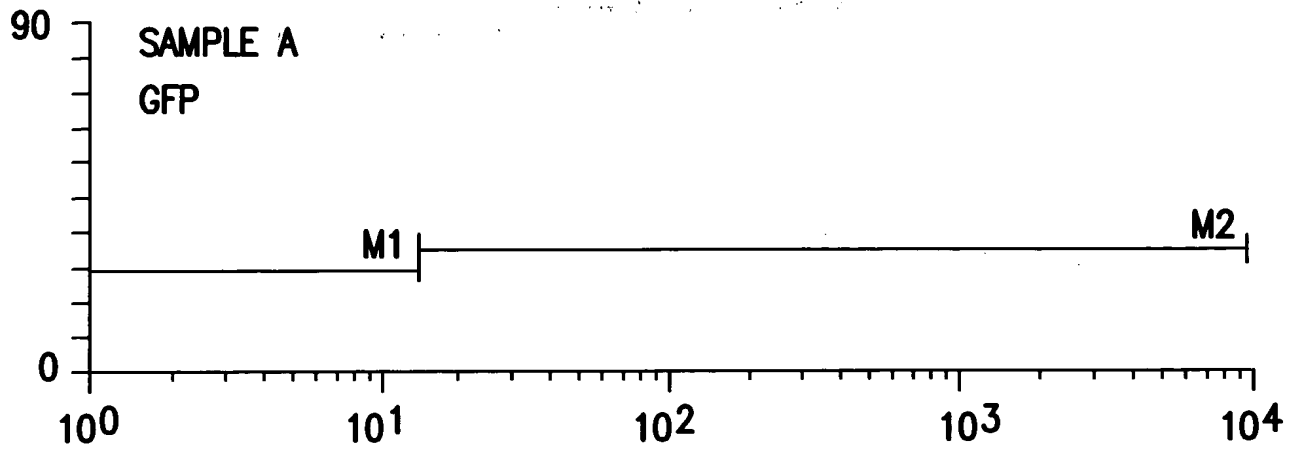


FIG.9A

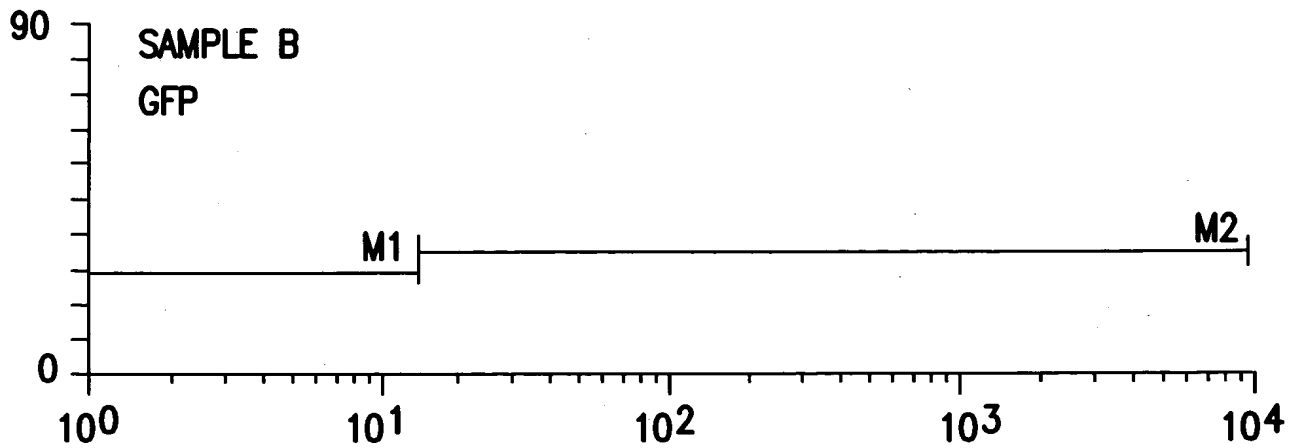


FIG.9B

16000

POSITION	
CXC-AMN20 (1)	-----NSHF I I T T Q G V L V F D S G S S E H I G N A (23)
ACTINORHODIN DEHYDRASE 1	MTVEVREVAEGVYAYEQAPGGWCVSNAAG I V V G G D G A L V V D T L S T I P R A R R 50
CXC-AMN20 (24)	I I A A V K R V T E Q P I R W V V N S H S H A D H W L G N A A L A K L G A E L I S T S L S A E T M K (73)
ACTINORHODIN DEHYDRASE 51	L A E W V D K L A A G P G R T V V N T H F H G D H A F G N Q V F A P - G T R I I A H E D M R S A M V 99
CXC-AMN20 (74)	S D G P V D V K A F F N M T K G A T G E S T L V I P T S I T L H Q Q T R T F G D T E V E F V F A N D (123)
ACTINORHODIN DEHYDRASE 100	T T G L A L T G - L W P - - R V D W G E I E L R P P N V T F R D R L T L H V G E R Q V E L T C V G P 146
CXC-AMN20 (124)	G H S P G D V M L W L P K Q R I L I G G D V V N S N F M P I M T P R G N I T Q L I S V L K E V E Q L (173)
ACTINORHODIN DEHYDRASE 147	A H T D H D V V V W L P E E R V L F A G D V V M S G V T P - F A L F G S V A G T L A A L D R L A E L 195
CXC-AMN20 (174)	S P L V L T G H G E N T S V K S V S R D I Q F L T Y A S N A V H E A L V K G T T P A K I Q A S L Q (223)
ACTINORHODIN DEHYDRASE 196	E P E V V V G G H G P V A G P E V I D A N R D Y L R W V Q R L A A D A V D R R L T P L Q A A R R A D 245
CXC-AMN20 (224)	A T L R T K F G K A Y Q D F D T S I S Y L L E M M I D K Q R L Q F S P T I - - - - - (264)
ACTINORHODIN DEHYDRASE 246	L G A F A G L L D A E R L V A N L H R A H E E L L G G H V R D A M E I F A E L V A Y N G G Q L P T C 295
CXC-AMN20 - - -	
ACTINORHODIN DEHYDRASE 296	L A *

FIG.10

157 6241

APPROVED	O.C. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

M - + + T 1 2 3 4

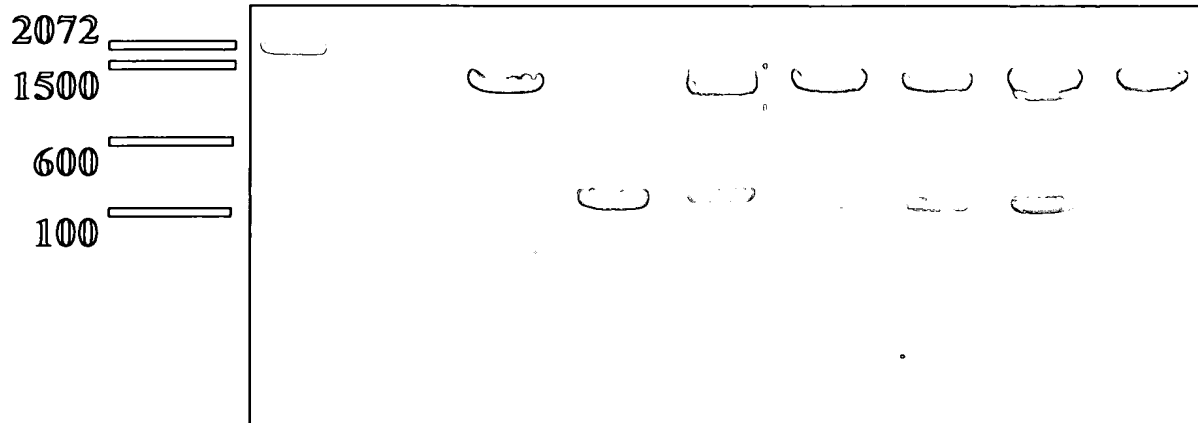


FIG.11

over 1/8

APPROVED	O.S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

POOL 1

M - + + 1 2 3 4 5 6 7 8 9 10

2072
1500
600
100

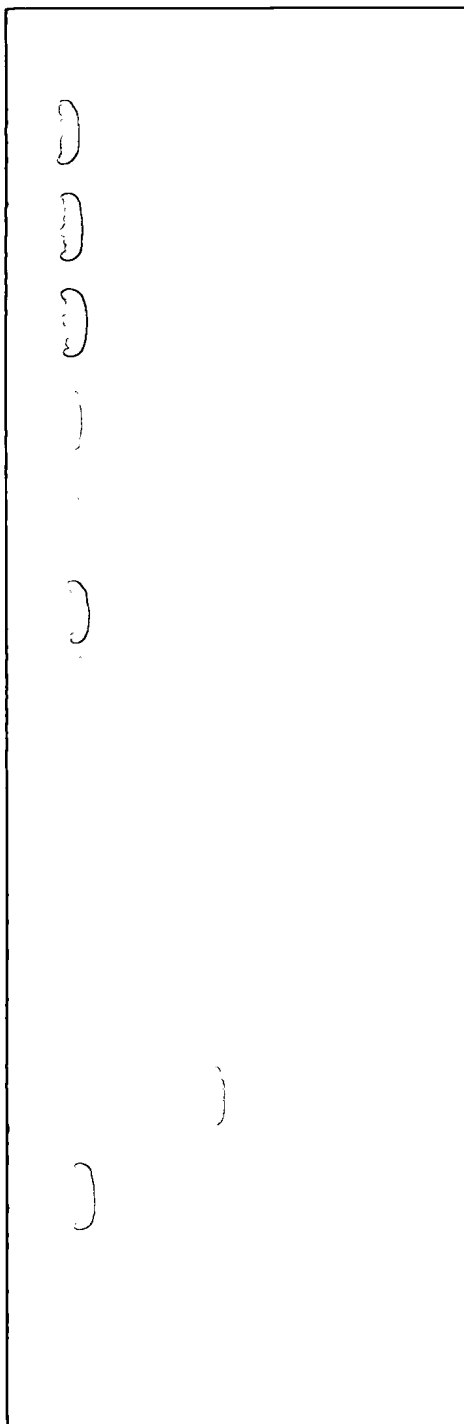


FIG.12A

APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

POOL 2

M - + + + 12 13 14 15 16 17 18 19 20

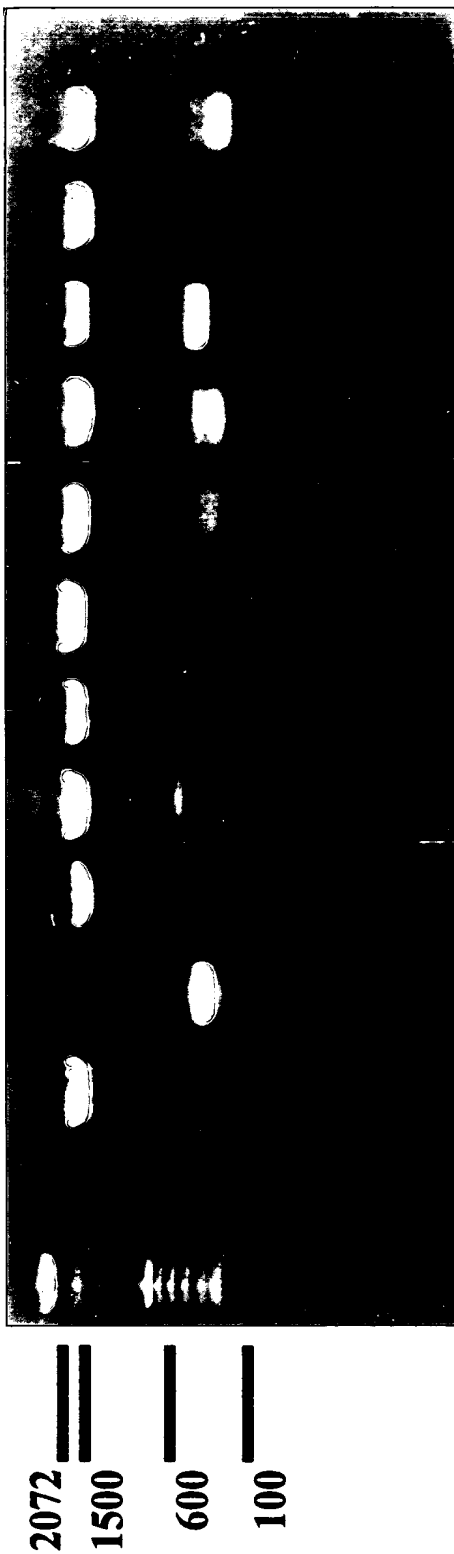


FIG.12B

APPROVED	O.S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

POOL 3

M - + + + 21 22 23 27 30 31 32 33 34 35

2072
1500
600
100

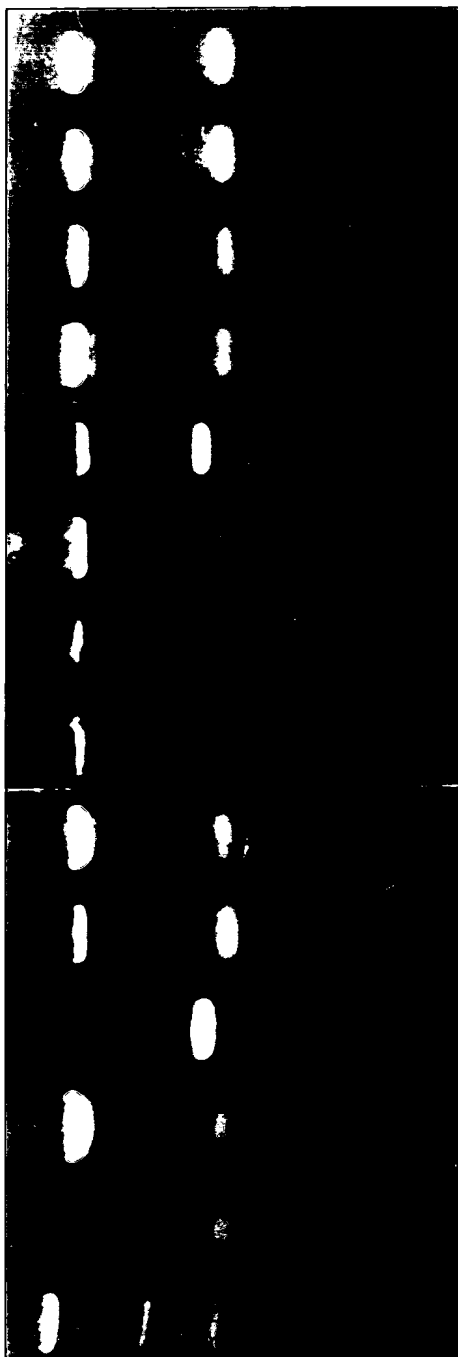


FIG.12C

Handwritten signature and date

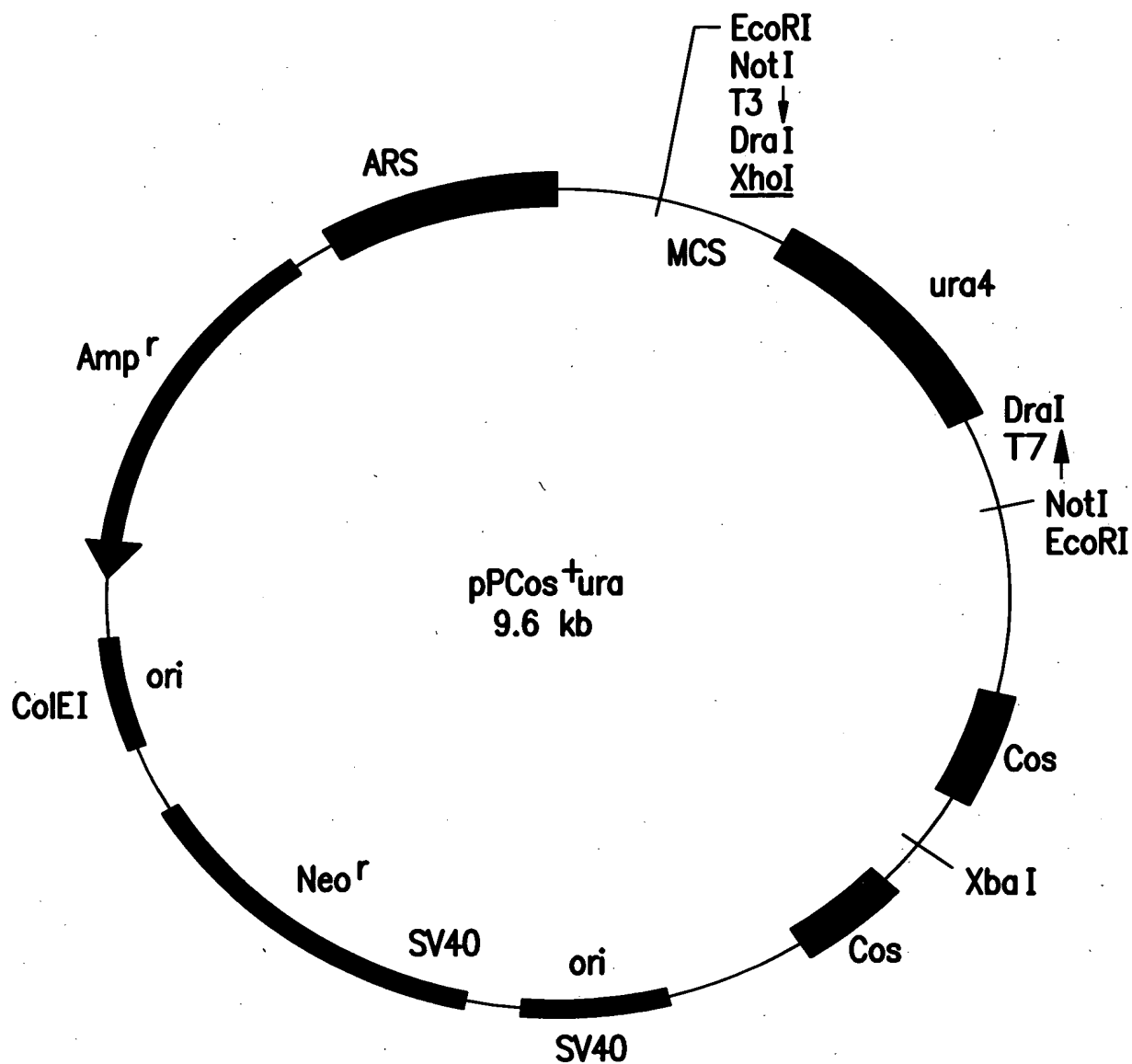


FIG.13

22

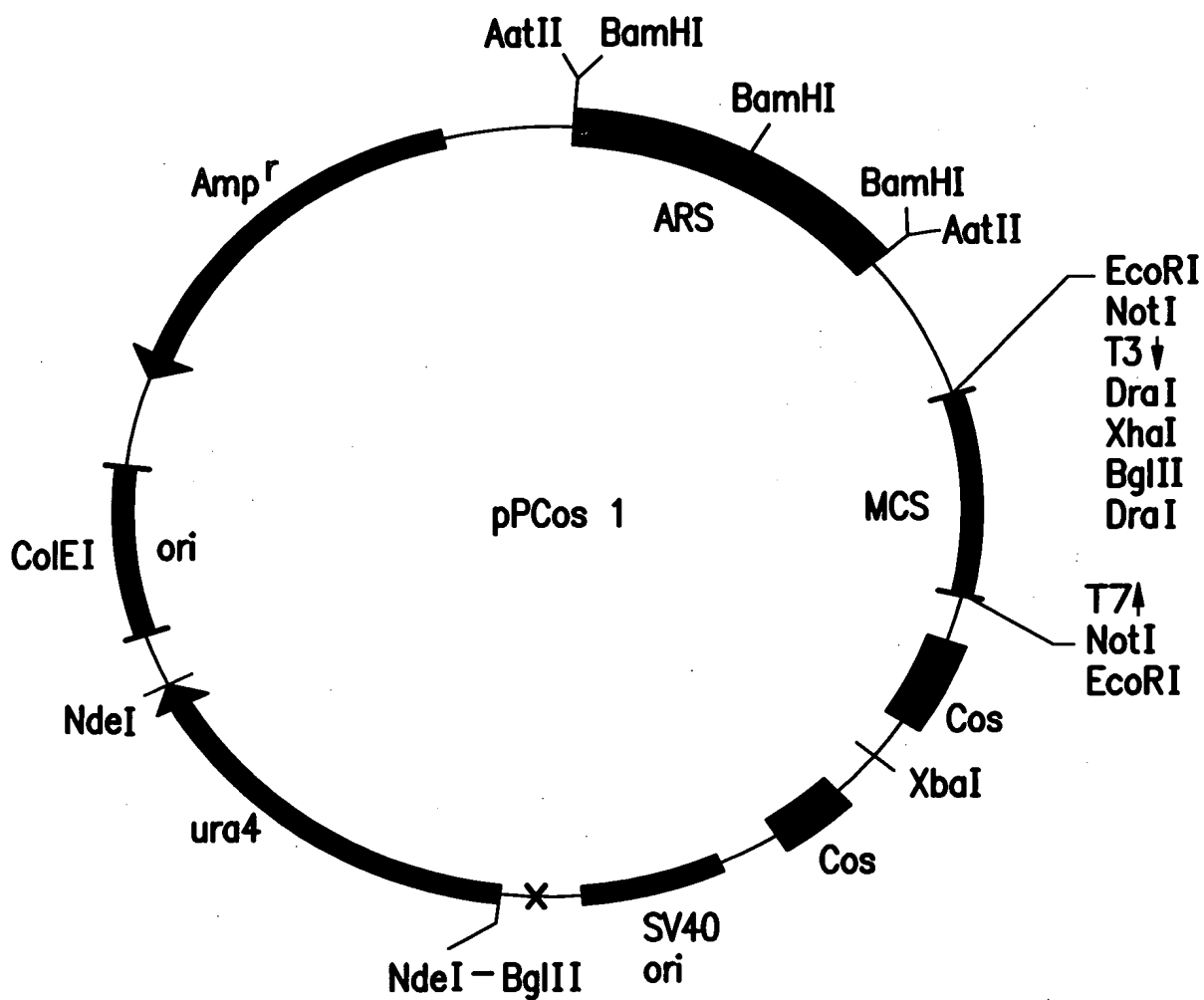


FIG.14

23